CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: 76175

CHEMISTRY REVIEW(S)

ANDA APPROVAL SUMMARY

ANDA:		CHEMIST:	DATE:			
	76-175	Ramesh Sood, Ph.D.	February 11, 2002			
DRUGI	PRODUCT:					
	Mefloquine Hydrochloride					
FIRM:						
Geneva Pharmaceutical Technology Corporation						
DOSAG	SE FORM:	STRENGTH:				
	Tablets	250 mg				
cGMP:						
	EER Pending					
BIO:	BIO:					
	Bioequivalence was reviewed by Mamata Gokhale and found acceptable on July 31, 2001.					
VALUE ATION (Commission of the commission of the						
VALIDATION - (Description of dosage form same as firm's):						
	The drug substance and the drug product are non-USP. Methods validation request was submitted to FDA laboratory on October 24, 2001 and the results are pending.					
STABIL	ITY:					
	The firm has provided 3 month accelerated stability data and 18 month room temperature data for the drug product packaged in box of five blisters with each blister containing 5 tablets. In addition, the firm also has submitted 3 month accelerated and room temperature data for the bulk tablets stored in LDPE bags. These stability data support the requested 24 month expiration date for 250 mg strength.					
LABEL	ING:					
Labeling was reviewed by L. Golson and found satisfactory on 7-Feb-2002.						
STERILIZATION VALIDATION (If applicable):						
N/A						
SIZE OF BIO BATCH (Firm's source of NDS ok?):						
	The sizes of bio-batch is tablets (Lot # D000301)					
The drug substance, Mefloquine Hydrochloride, was manufactured by						
SIZE OF STABILITY BATCHES (If different from bio batch, were they manufactured via the same process?): N/A						
PROPOSED PRODUCTION BATCH - MANUFACTURING PROCESS THE SAME?:						
Manufacturing process is same (Batch size: Tablets).						
Signate	ure of chemist:	Signature of supervisor:	•			
	/5/	An 2/12/62	-			

OFFICE OF GENERIC DRUGS

ABBREVIATED NEW DRUG APPLICATION CHEMISTRY, MANUFACTURING AND CONTROLS REVIEW

1. CHEMIST'S REVIEW NUMBER

1

2. ANDA NUMBER

76-175

3. NAME AND ADDRESS OF APPLICANT

Geneva Pharmaceutical Technology Corporation Attn: Mahendra Patel, Ph.D. 2400 Route 130 Dayton, NJ 08810

Ph: 732-274-2400

Fax: 732-274-8989

4. LEGAL BASIS for ANDA SUBMISSION

The basis of Geneva's proposed ANDA for Mefloquine Hydrochloride Tablets is RLD, Larium Tablets (NDA 19591) manufactured by F. Hoffmann-la Roche Ltd., Basel, Switzerland and distributed by Roche Laboratories, Inc., 340 Nutley, NJ. The applicant certifies that the claims of U.S. patent No. 4,579,855 (expiring October 1, 2004), that covers the RLD Larium, are invalid, unenforceable and/or will not be infringed by the manufacture, use or sale of the Mefloquine Tablets (V1.1, June 7 correspondence). GPTC also certifies that there are no exclusivities associated with the approved listed drug product, Larium Tablets 250 mg.

5. SUPPLEMENT(s)

None

6. NAME OF DRUG

Mefloquine Hydrochloride

7. NONPROPRIETARY NAME

Mefloquine Hydrochloride

8. SUPPLEMENT(s) PROVIDE(s) FOR

None

9. AMENDMENTS AND OTHER DATES

5/23/2001

Original submission

6/7/2001

New Correspondence (Amended patent certification)

10. PHARMACOLOGICAL CATEGORY

Treatment of acute malarial infections.

11. HOW DISPENSED

Prescription

12. RELATED IND/NDA/DMF(s)

Product	Holder	DMF No.	LOA
Mefloquine Hydrochloride			V. 1.10, p. 4585
Blister card component manufacturer			V. 1.10, p. 4999
Packaging site for blister packaging			V. 1.10, p. 4998

13. DOSAGE FORM

Tablets

14. POTENCY

250 mg.

15. CHEMICAL NAME AND STRUCTURE

Mefloquine hydrochloride: (R^*,S^*) - (\pm) - α -2-Piperidinyl-2,8-bis (trifluoremethyl)-4-quinilinemethanol hydrochloride; MW 414.78, CAS-No 51773-92-3

16. RECORDS AND REPORTS

None

17. COMMENTS

The following sections are unsatisfactory: synthesis, raw material control, container, laboratory controls, and stability.

18. CONCLUSIONS AND RECOMMENDATIONS

The application is not approvable [Minor Amendment].

19. REVIEWER AND DATE COMPLETED

Ramesh Sood, Ph.D./July 24, 2001

APPEARS THIS WAY ON ORIGINAL

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confidential

commercial

information Chem Review #1

OFFICE OF GENERIC DRUGS

ABBREVIATED NEW DRUG APPLICATION CHEMISTRY, MANUFACTURING AND CONTROLS REVIEW

1. CHEMIST'S REVIEW NUMBER

2

2. ANDA NUMBER

76-175

3. NAME AND ADDRESS OF APPLICANT

Geneva Pharmaceutical Technology Corporation Attn: Pankaj Dave 2400 Route 130

2400 Route 130 Dayton, NJ 08810

Ph: 732-274-2400

Fax: 732-274-8989

4. LEGAL BASIS for ANDA SUBMISSION

The basis of Geneva's proposed ANDA for Mefloquine Hydrochloride Tablets is RLD, Larium Tablets (NDA 19591) manufactured by F. Hoffmann-la Roche Ltd., Basel, Switzerland and distributed by Roche Laboratories, Inc., 340 Nutley, NJ. The applicant certifies that the claims of U.S. patent No. 4,579,855 (expiring October 1, 2004), that covers the RLD Larium, are invalid, unenforceable and/or will not be infringed by the manufacture, use or sale of the Mefloquine Tablets (V1.1, June 7 correspondence). GPTC also certifies that there are no exclusivities associated with the approved listed drug product, Larium Tablets 250 mg.

5. SUPPLEMENT(s)

None

6. PROPRIETARY NAME OF DRUG

N/A

7. NONPROPRIETARY NAME

Mefloquine Hydrochloride

8. SUPPLEMENT(s) PROVIDE(s) FOR

None

9. AMENDMENTS AND OTHER DATES

5/23/2001 Original submission
6/7/2001 New Correspondence (Amended patent certification)
7/2/2001 New Correspondence (Patent Amendment)
7/11/2001 Telephone Bio Amendment

7/30/2001 Patent Amendment 10/12/2001 Minor Amendment 10/25/2001 Telephone Amendment 10/26/2001 11/5/2001 Labeling Amendment Labeling Amendment

10. PHARMACOLOGICAL CATEGORY

Treatment of acute malarial infections.

11. HOW DISPENSED

Prescription

12. RELATED IND/NDA/DMF(s)

Product	Holder DMF No.	LOA
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16. RECORDS AND REPORTS

None

17. COMMENTS

EER is pending. Methods validation results from FDA laboratory are awaited.

- 18. CONCLUSIONS AND RECOMMENDATIONS

 The application is approvable pending EER.
- 19. REVIEWER AND DATE COMPLETED
 Ramesh Sood, Ph.D./February 11, 2002

APPEARS THIS WAY ON ORIGINAL

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38. CHEMISTRY COMMENTS TO BE PROVIDED TO THE APPLICANT

ANDA: 76-175

APPLICANT: Geneva Pharmaceuticals Technology Corporation

DRUG PRODUCT: Mefloquine Hydrochloride Tablets, 250 mg.

The deficiencies presented below represent Minor deficiencies.

A. Deficiencies:

- B. In addition to responding to the above deficiencies, please note and acknowledge the following comments in your response:
 - Your labeling information is pending review.
 Deficiencies, if any, will be communicated separately.

- 2. Your bioequivalency information is pending review.

 Deficiencies, if any, will be communicated separately.
- 3. All facilities referenced in the ANDA should have a satisfactory compliance evaluation at the time of approval.
- 4. We require an acceptable Methods validation to support the ANDA and we will be scheduling this study after all issues related to method validation have been resolved. At that time you will be requested to submit samples. Please provide those requested samples promptly when contacted. Please also provide a commitment to work with us to expeditiously resolve any deficiencies from the Methods validation study if the ANDA is approved prior to its completion.
- 5. Please provide all available long-term stability data to update your studies.

Sincerely yours,

Rashmikant M. Patel, Ph.D.

Director

Division of Chemistry I Office of Generic Drugs

Center for Drug Evaluation and Research

ESTABLISHMENT EVALUATION REQUEST SUMMARY REPORT

Application:

ANDA 76175/000

Priority:

Org Code: 600

Stamp: 24-MAY-2001 Regulatory Due:

Action Goal:

District Goal: 24-APR-2002

Applicant:

GENEVA PHARMS TECH

Brand Name:

2400 RT 130 NORTH

Established Name: MEFLOQUINE HYDROCHLORIDE

DAYTON, NJ 08810

Generic Name:

Dosage Form: TAB (TABLET)

Strength:

250 MG

FDA Contacts:

T. AMES

(HFD-640)

301-827-5849 , Project Manager

P. SCHWARTZ

(HFD-629)

301-827-5848 , Team Leader

Overall Recommendation:

Establishment:

DMF No:

AADA No:

Profile: CSN

OAI Status: NONE

Responsibilities: DRUG SUBSTANCE

Last Milestone: ASSIGNED INSPECTION TO IB

Milestone Date: 28-JUN-2001

MANUFACTURER

Establishment: 2247859

DMF No:

GENEVA PHARMACEUTICALS TECH AADA No:

2400 RT 130 NORTH DAYTON, NJ 08810

Profile: TCM

OAI Status: NONE

Responsibilities: FINISHED DOSAGE **MANUFACTURER**

Last Milestone: SUBMITTED TO DO

Milestone Date: 27-JUN-2001

Establishment:

DMF No:

AADA No:

Profile: TCM

OAI Status: NONE

Last Milestone: SUBMITTED TO OC

Milestone Date: 07-AUG-2001

Responsibilities: FINISHED DOSAGE PACKAGER

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TUA CUEK EES ESTABLISHMENT EVALUATION REQUEST

Action Goal:

Generic Name:

DETAIL REPORT

Application: ANDA 76175/000

Stamp: 24-MAY-2001

District Goal: 24-APR-2002

Regulatory Due:

Brand Name:

Applicant: GENEVA PHARMS TECH Estab. Name: MEFLOQUINE HYDROCHLORIDE

2400 RT 130 NORTH

DAYTON, NJ 08810

Dosage Form: (TABLET) Priority:

Org Code: 600 Strength: 250 MG

Application Comment:

301-827-5849 , Project Manager FDA Contacts: T. AMES (HFD-640)

> 301-827-5848 , Team Leader P. SCHWARTZ (HFD-629)

Overall Recommendation:

Establishment:

DMF No: AADA:

Responsibilities: DRUG SUBSTANCE MANUFACTURER

Profile: CSN OAI Status: NONE

Estab. Comment:

Milestone Name Req. TypeInsp. Date Decision & Reason Creator Date

SUBMITTED TO OC 27-JUN-2001 MIDDLETONS

Establishment: 2247859

GENEVA PHARMACEUTICALS TECHNOLOGY CORP

2400 RT 130 NORTH DAYTON, NJ 08810

DMF No:

AADA:

Responsibilities: FINISHED DOSAGE MANUFACTURER

Profile:

TCM

OAI Status: NONE

Estab. Comment:

Req. TypeInsp. Date Decision & Reason Creator Milestone Name Date

SUBMITTED TO OC 27-JUN-2001 MIDDLETONS